

P/N: SC-PS1700

Cat6a U/UTP PVC Indoor/Outdoor Rated, UL Riser



Higher Cooper Content



Highest Bandwidth



Higher PoE Performance



Reel in Box Packaging



UL Rated



Indoor/Outdoor UV Sun-Res



25 Year Certified System Warranty



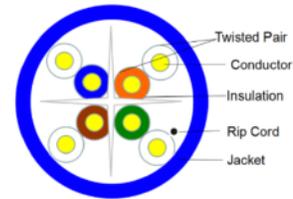
Limited Lifetime Warranty

Key Features

- 550MHz Class E Bandwidth Performance
- PoE Rated Type 4 90W
- 3rd Party UL Verified
- Riser Rated - UL CMR FT4 / ETL CMR-LP
- 20 Free Connectors inside every box
- HDBaseT® Recognized
- Limited Lifetime Warranty**
- Premium Reel-in-Box
- Uses Wood/Cardboard Spool Inside Box, No Plastic
- Reinforced handles for improved performance
- UV Protected for Seamless Indoor/Outdoor Installs
- Strong, Lightweight, Resilient*
- Color Coded to Visually Reinforce Category Cable Type
- Up to 39% Less Waste Volume

*Damaged boxes still dispense perfectly

**Details at www.simplybrands.com/warranties



Description

SimplyCable Pro Series Cat6a - 600Mhz 23+ AWG Solid BC, 4PR, U/UTP, Pair Separator, Class Ea, UL CMR FT4, PoE Type 3/4 60W/90W, CPR EuroClass: Dca-s3,d2,a3 PVC Jacket

Construction

Conductor	Material Solid/Stranded Size Insulation Material Insulation OD Color Code Twisted Pair Insulated Conductor OD	Bare Copper Solid 23 AWG na 0.275mm Per ANSI/TIA 568.2-D 4P/2 Cores to Pair 1.02+/-0.1mm	Shielding/Screen	Type Material	Unshielded na
Pair Separator/Spline	Material Spline OD	CMR Rated 5.7 +/-0.5mm, 0.50 +/-0.1mm	Drain Wire	None	
Rip Cord	Yes, Nylon		Jacket/Sheath	Material Nominal Jacket Thickness Color Code	PVC - UV Sun Res 0.80mm avg Per Request
			Overall Cable Diameter (OD)	6.8±0.4mm	

Mechanical Properties

Bend Radius	Min Bend Radius (Installation) Min Bend Radius (Operation)	8x Outer Diameter 4x Outer Diameter
Maximum Pulling Tension		
Insulation Tensile Strength	Unaged / Elongation %	12.3Mpa / 150% 9.8Mpa / 100%
Jacket/Screen Tensile Strength	Unaged / Elongation % Aged / Elongation %	13.8Mpa / 100% 11.7Mpa / 50%
Cable Cold Bend (-20°C for 4 hrs)	No Crack	

Environmental Parameters

Temperature Range - Operating	-20°C to 75°C (-4°F to 167°F)
Temperature Range - Installation	0°C to 40°C (32°F to 104°F)
Temperature Range - Storage	0°C to 40°C (32°F to 104°F)

Environmental Compliance

RoHS Compliant: RoHS II/III, EU/UK RoHS
REACH, WEEE Directive, WFD:2023, SCIP:2023, POPs (EU) No 2019/1021
Reel-in-Box – Made with recyclable materials. No plastic.

California Prop 65 Warning – California Residents Only
WARNING: This Product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information: www.P65Warnings.ca.gov

Electrical Characteristics

Bandwidth per TIA Standard	500MHz	Capacitance Unbalance pair-to-ground	Max 3300 pf/km
Maximum Bandwidth as Tested	600MHz	Characteristic Impedance	100 +/- 15 Ohm
Conductor Resistance (at 20°C)	Max 72.2ohm/km	Nominal Velocity of Propagation % (NVP)	67-69
Dielectric Strength	Min AC1.5KV	Rated Voltage	Insulated 300V
Spark Test	5.0KV		Operating Low Voltage 80V
AC Leakage Current thru Jacket/Screen	na	Delay Skew	Max 40ns / 100m
Resistance Unbalance	Max 5%	PoE Rating	802.3bt Type 3/4 60W/90W
Insulation Resistance	min 5000MΩ.km	Transverse Conversion Loss (TCL)	30 – 10log(f / 100) @1-500MHz
Mutual Capacitance	5600pF/100m		

Standards Reference

Manufactured in Accordance to: ANSI/TIA 568.2-D, ISO/IEC 11801 Class E, EN 50288-5-1, ISO/IEC 61156-5, EN 50173-1, EN 50288-6-1, EN 50575

EN50575 CPR EuroClass: Dca-s3,d2,a3

Reaction to Fire: BS EN 13501-6; UL Riser Rated

Power Over Ethernet (PoE): IEEE 802.3bt Type 4 90W

Power Over HDBaseT (PoH): Yes

3rd Party Certification: UL CMR cUL FT4

Cable Jacket Markings

SIMPLY CABLE --- SC-BC1700 --- CAT6A UTP PROSERIES - ENHANCED 10GBASE-T 600MHZ UTP ANSI/TIA 568.2-D & ISO/IEC 11801 CLASS Ea----- STRUCTURED CABLE PRODUCTS E198134 SCP6 (UL) C(UL) CMR 4PR 23 AWG SOL BC -----ETL CMR -LP(0.5A) --- IEEE802.3bt TYPE 4 90W PVC JKT FT4 75C EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***FEET DDMMYY

Above jacket markings are an example for reference purposes. All SimplyCable jacket markings include descending feet or meter markings and our industry leading zone and outlet legend for easy cable identification during installation.

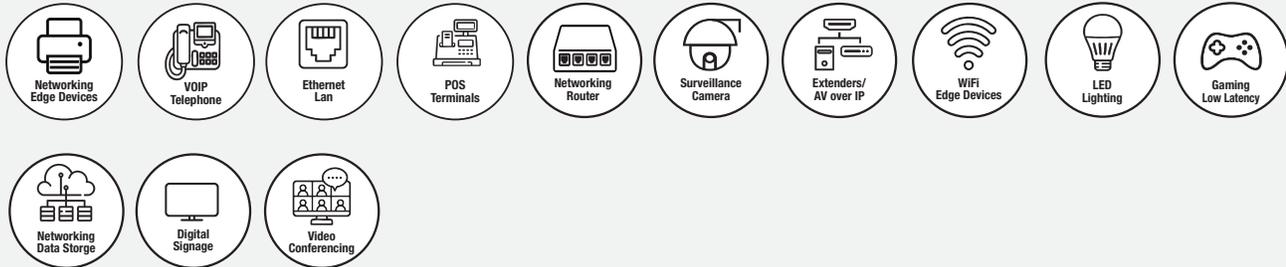
Performance Data*

Bandwidth MHz	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)		RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	2.1	1.9	74.3	80.3	72.3	76.6	72.3	78.4	20	23.6	68	75.6	65	73.3	70.3	74.7
4	3.8	3.7	65.3	75.6	63.3	74.2	61.5	71.9	23	23.9	56	61.3	53	60.1	59.5	70.5
8	5.3	5.1	60.8	66	58.8	65.1	55.5	60.9	24.5	30	49.9	55.7	46.9	54.8	53.5	60
10	5.9	5.8	59.3	67.6	57.3	65.9	53.3	61.8	25	28.5	48	55.2	45	53.2	51.3	60.1
16	7.5	7.4	56.2	70.8	54.2	67.2	48.6	63.4	25	28.2	43.9	49.7	40.9	48.1	46.6	59.8
20	8.4	8.2	54.8	71.9	52.8	69.1	46.3	63.7	25	27.8	42	48.1	39	46.2	44.3	60.9
25	9.4	9.1	53.3	62.3	51.3	60.8	43.8	53.2	24.3	27.5	40	45.9	37	45	41.8	51.7
31.25	10.5	9.9	51.9	68.7	49.9	67.1	41.2	58.8	23.6	24.9	38.1	42.7	35.1	41.7	39.2	57.2
62.5	15	15	47.4	59.6	45.4	58.3	32	44.6	21.5	24.1	32.1	39.4	29.1	37.4	30	43.3
100	19.1	18.8	44.3	60	42.3	58	24.5	41.2	20.1	23.5	28	35	25	33.2	22.5	39.2
200	27.6	27.4	39.8	57.5	37.8	56	10.8	30.1	18	23.2	22	32.8	19	30.2	8.8	28.6
250	31.1	29.4	38.3	55.8	36.3	54.1	5.5	26.4	17.3	21.5	20	30.7	17	27.7	3.5	24.7
300	34.3	33.3	37.1	54.2	35.1	53.4	0.7	20.9	16.8	20.8	18.5	26.5	15.5	25.4	---	---
400	43	38.6	35.3	53.8	33.3	52.1	---	---	15.9	18.9	15.8	23.4	12.8	22.1	---	---
500	45.3	43.9	33.8	51	31.8	49.3	---	---	15.2	18.6	14	19.5	11	18.7	---	---

*SimplyCable Cat6 Premium Cables exceed industry transmission requirements at 20°C as per ANSI/TIA 568 and IEC 61156-5 Ed 2.

Applications

Supports all Category 6a and Class Ea applications including structured cabling for horizontal and building backbone, Ethernet 10/100/1000/10GBASE-T, indoor use, fixed installations, Power Over Ethernet (PoE), and other high bandwidth applications.



Part Numbers

Item No.	UPC	Jacket Color	Package Length	Package Type	Package Weight (kg/lb)	Item Dimensions (mm)
North America:						
SC-BC1700BL	810093726851	Blue	1000ft/305m	Premium Reel in Box	40.7/18.5	383*323*435
SC-BC1700BK	810093726868	Black	1000ft/305m	Premium Reel in Box	40.7/18.5	383*323*435
SC-BC1700WT	810093726875	White	1000ft/305m	Premium Reel in Box	40.7/18.5	383*323*435
EU (EMEA):						
Not available at this time						

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